

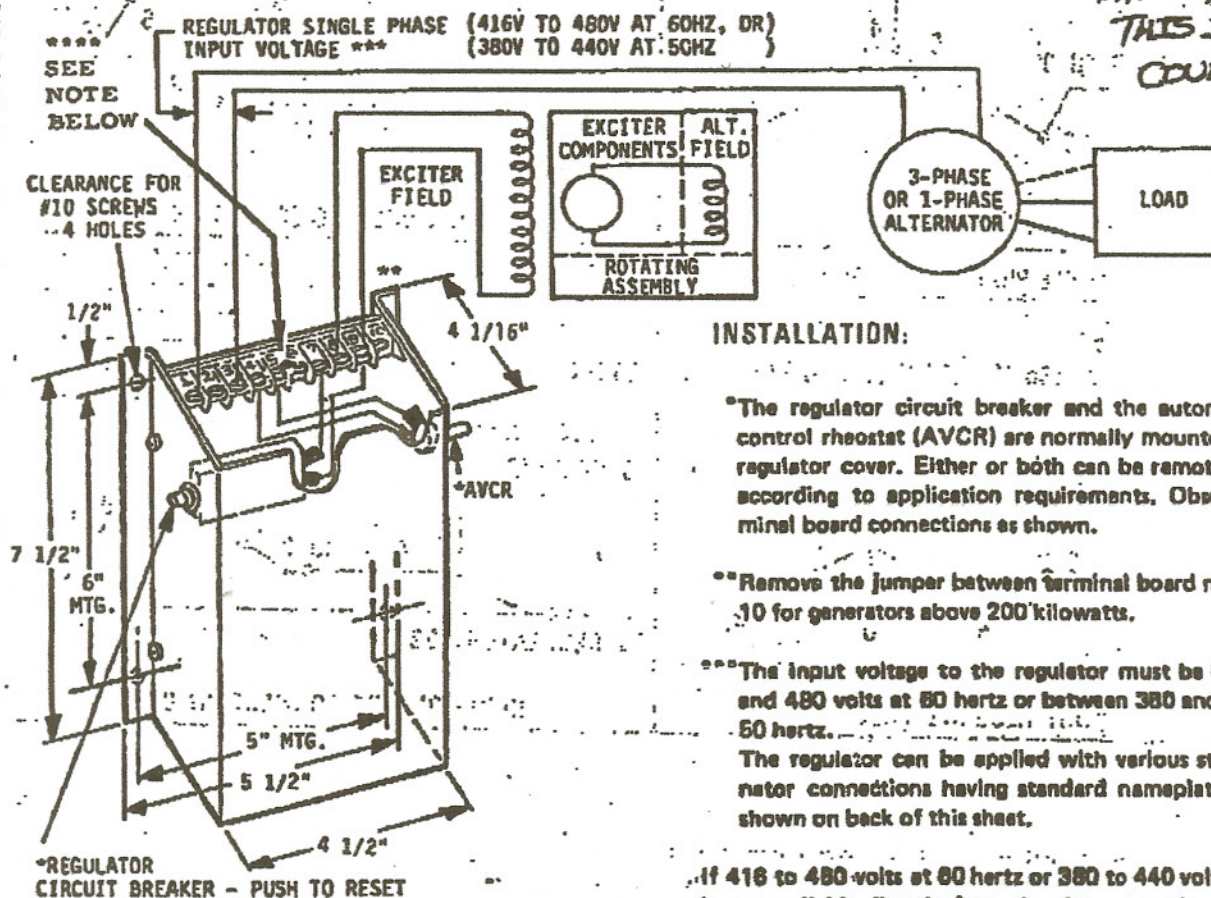


INSTRUCTIONS

GM

INSTALLATION & OPERATION—3H18040 SERIES VOLTAGE REGULATOR

*ERNEST,
THIS IS ALL I
COULD FIND.
TROY
GRAYBILL*



**** NOTE: The jumper between TB5 & TB6 must be removed if either a parallel kit or a static underspeed switch, or both, are used.

INSTALLATION:

*The regulator circuit breaker and the automatic voltage control rheostat (AVCR) are normally mounted within the regulator cover. Either or both can be remotely mounted according to application requirements. Observe the terminal board connections as shown.

**Remove the jumper between terminal board number 8 and 10 for generators above 200 kilowatts.

***The input voltage to the regulator must be between 416 and 480 volts at 60 hertz or between 380 and 440 volts at 50 hertz.

The regulator can be applied with various standard alternator connections having standard nameplate voltages as shown on back of this sheet.

If 416 to 480 volts at 60 hertz or 380 to 440 volts at 50 hertz is not available directly from the alternator, the regulator can still be used if a 400 volt-ampere or greater isolation transformer is used between the regulator and the alternator. The input voltage to the isolation transformer must be the same as the voltage available from the alternator and the output must be between 416 and 480 volts at 60 hertz or 380 to 440 volts at 50 hertz.

OPERATION:

1. For a new installation, turn the AVCR fully counter-clockwise so that the line voltage will be at a minimum after the engine is started.

2. Start the driving engine and adjust to rated speed of the generator.

CAUTION: Generators operating with automatic voltage regulators should not be run at less than nameplate speed, unless equipped with underspeed protection. Reduced speed operation may damage the regulator or generator.

Adjust the generator voltage to the desired level within the nameplate rating with the AVCR.

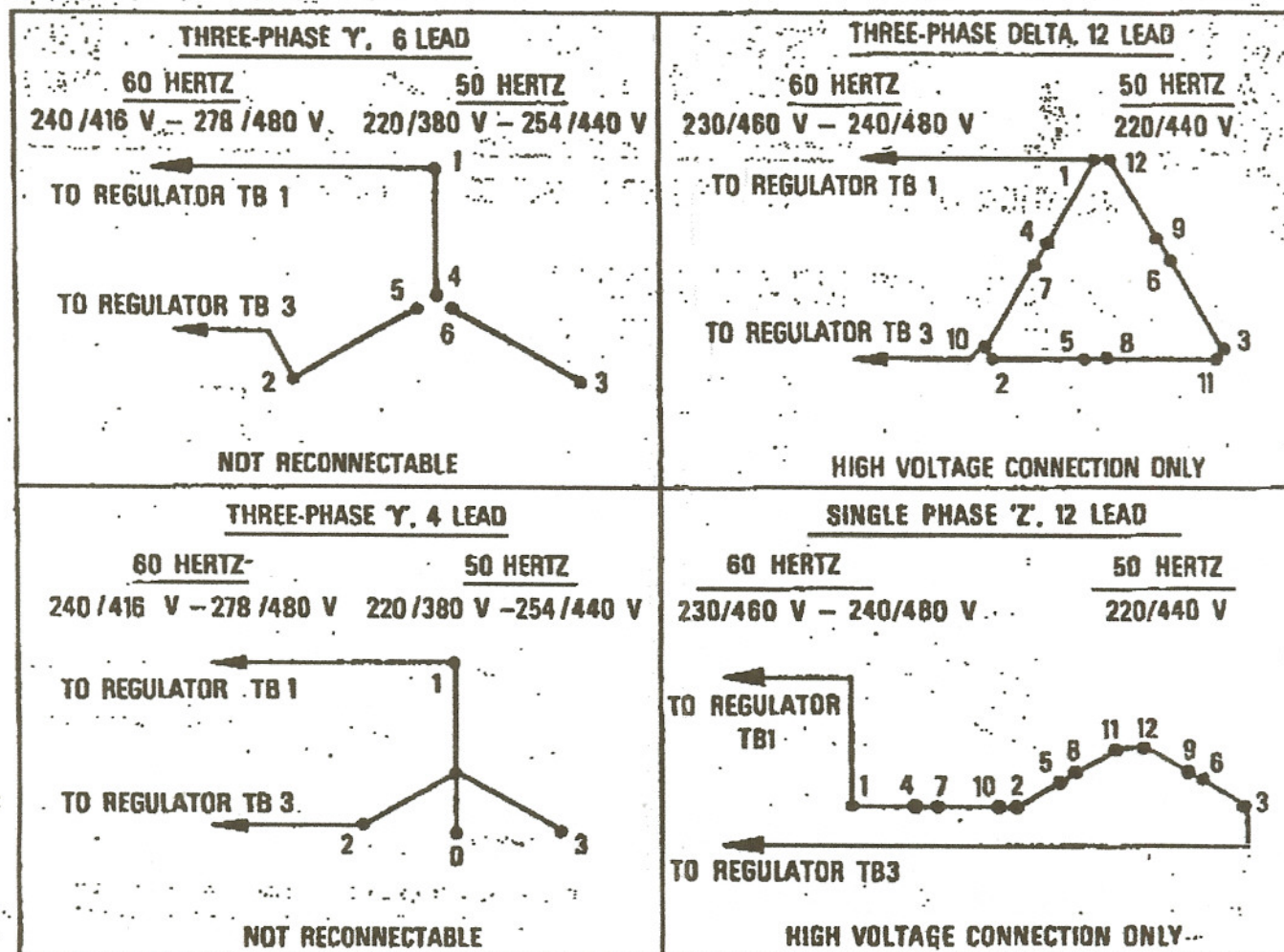
4. Close the line switch or circuit breaker.

5. Check amperes, volts, and frequency to be certain values are within nameplate rating. Also, check both voltage and current line balance on three-phase systems.

Field Flashing

CAUTION: The rectifiers in the regulator will be damaged if the generator exciter is flashed wrong. The correct polarity for field flashing is: Battery (+) on regulator terminal 8 and battery (-) on terminal 9.

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ACCESSORIES:

1. H39184C Paralleling Kit — for 3-phase, wye connected, 4 or 6 lead alternator less than 550 kilowatts. Other paralleling kits available for different alternator connections — contact the factory.
2. H443000 Static Underspeed Switch — To protect the generator-regulator system when the frequency is more than 10% below rated frequency.
3. H38000 Series C Triple Action Boost (TAB) — The TAB system improves generator-regulator performance in three ways:
 - a. Strong short-circuit drive.
 - b. Improved motor starting.
 - c. Increased operating current range of regulator.

When ordering accessories, include the generator model number.